

## Donald G. Denning (1909-1988)

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Donald Gordon Denning, the leading authority on Trichoptera of the western United States, died on February 7, 1988. He was 78 years old. During his lifetime he published over 65 papers on caddisflies and described 339 different species.

Don Denning was born on December 18, 1909 in Ely, Minnesota. His father was a teacher. As a young boy growing up in northern Minnesota, Don was an avid insect collector and reader; he kept these interests throughout his life. He attended Macalester College in St. Paul, Minnesota, a school that also presented him with an honorary Doctor of Science degree in 1954. He completed his B.S. in zoology there in 1932 and went on to the University of Minnesota, receiving his M.S. and Ph.D. in entomology in 1939 and 1942, respectively. Don did his research under the direction of Dr. C. E. Mickel. His research during this period was published in two papers that are still widely cited: "The Biology of some Minnesota Trichoptera" (1937) and "The Hydropsychidae of Minnesota" (1943).

From 1936 to 1941, Don was an assistant to Dr. J. R. Parker and conducted research on the ecology and control of grasshoppers in Minnesota and North Dakota. Beginning in 1942, he joined the United States Public Health Service and was involved in mosquito control activities in the eastern and southern United States. He was commissioned as Lieutenant in the Public Health Service in early 1943 and was promoted to Captain in 1945. He received an honorable discharge in 1946 and accepted a position as an Assistant Professor at the University of Wyoming. His official university responsibilities were to teach economic entomology and to conduct research on insects affecting livestock and forage crops, and on grasshoppers. Most of his publications during this period were on the taxonomy of Trichoptera. In 1951 Don left the University of Wyoming and joined Velsicol Corporation in California conducting research that led to the development of chlorinated hydrocarbon insecticides. From 1956 until his retirement he supervised field research for Chemagro Corporation in the western United States, Hawaii, and Mexico, and was actively involved in the development of organophosphate insecticides. During this entire period, he continued to publish extensively on caddisfly taxonomy. His chapter on Trichoptera in R. L. Usinger's "Aquatic Insects of California" (1956) is still the standard reference for adult Trichoptera in the far-western United States.

He was active in many societies, among them the California Academy of Sciences, The Entomological Societies of America, Canada, Washington, and Kansas, and the Pacific Coast Entomological Society. Among his many honors, he was president of the Pacific Coast Entomological Society (1972), a Fellow of the Entomological Society of America (1987), an Honorary member of the Northern California Entomology Club (1976), and a life member of the Bohart Museum at the University of California, Davis (1985).

In 1941, he married Loretta Hofacker and in 1943, their son, James Donald, was born. Loretta Denning was a reference librarian at the Hayward (California) Public Library and James is an active horticulturist in Berkeley.

At a memorial service held for him in Berkeley on March 4, 1988, his friends and family reminisced about Don's enjoyments: telling stories, entertaining friends at home, engaging in political discussions, and his lifelong loves of reading, collecting insects and stamps, and gardening. His colleagues spoke of his unending patience in identifying caddisflies, whether they were sent by colleagues, students, or amateur entomologists.

Don's publications on Trichoptera extended over five decades and at the time of his death several other manuscripts were partially written. Considering that most of Don's professional career was spent with the agricultural chemical industry, his publications on Trichoptera truly represented his fascination for these insects, and his interest in communicating his knowledge about them to others.

Don was extremely personable and he instinctively was drawn into close collaboration and co-authored many of his publications with other scientists. Ironically, he never met several of these collaborators but it was obvious that his association with them was a joy in his professional life.

The members of the scientific community that knew Don and his work express their condolences to James and Loretta Denning. I thank them and Helen Dragavon for providing information on Don's life, and Paul Arnaud, Oliver Flint, Eric McElravy, John Morse, and Glenn Wiggins for assistance in developing the bibliography and list of taxa described by Donald G. Denning. Paul Arnaud, Donald Burdick, Vincent Lee, and Robert Schuster have arranged the transfer of his Trichoptera collection to the appropriate institutions.

#### LIST OF PUBLICATIONS BY D. G. DENNING

Listed below are the 68 papers published (or in press) by D. G. Denning during his lifetime.

- Bird, R. D., and D. G. Denning. 1936. A migration of the dragonfly *Libellula quadrimaculata* L. *The Canadian Entomologist*, 68:283–284.
- Denning, D. G. 1937. The biology of some Minnesota Trichoptera. *Transactions of the American Entomological Society*, 63:17–43.
- Denning, D. G. 1941a. Descriptions and notes of new and little known species of Trichoptera. *Annals of the Entomological Society of America*, 34:195–203.
- Denning, D. G. 1941b. Descriptions of three new species of Mexican *Chimarra* (Trichoptera: Philopotamidae). *Entomological News*, 52:82–85.
- Denning, D. G. 1941c. The genus *Grammotaulius* in North America, with the description of a new species (Trichoptera, Limnephilidae). *The Canadian Entomologist*, 73:232–235.
- Denning, D. G. 1942. Descriptions of new Trichoptera from the United States. *The Canadian Entomologist*, 74:46–51.
- Denning, D. G. 1943. The Hydropsychidae of Minnesota (Trichoptera). *Entomologica Americana* 23(New Series):101–171.
- Pratt, H. D., W. W. Wirth, and D. G. Denning. 1945. The occurrence of *Culex opisthopus* Komp in Puerto Rico and Florida, with a description of the larva (Diptera, Culicidae). *Proceedings of the Entomological Society of Washington*, 47:245–251.
- Denning, D. G. 1947a. New Trichoptera from Puerto Rico. *Annals of the Entomological Society of America*, 40:656–661.
- Denning, D. G. 1947b. Hydroptilidae (Trichoptera) from southern United States. *The Canadian Entomologist*, 79:12–20.

- Denning, D. G. 1947c. New species and records of North American Hydroptilidae (Trichoptera). *Psyche*, 54:170–177.
- Denning, D. G. 1947d. New species and records of nearctic Hydroptilidae (Trichoptera). *Bulletin of the Brooklyn Entomological Society*, 42:145–158.
- Denning, D. G. 1947e. New species of Trichoptera from the United States. *Entomological News*, 58:249–257.
- Denning, D. G. 1948a. New and little known species of nearctic Trichoptera. *Psyche*, 55:16–27.
- Denning, D. G. 1948b. A review of the Rhyacophilidae (Trichoptera). *The Canadian Entomologist*, 80:97–117.
- Denning, D. G. 1948c. Descriptions of eight new species of Trichoptera. *Bulletin of the Brooklyn Entomological Society*, 43:119–129.
- Denning, D. G. 1948d. New species of Trichoptera. *Annals of the Entomological Society of America*, 41:397–401.
- Denning, D. G. 1949a. New species of nearctic caddis flies. *Bulletin of the Brooklyn Entomological Society*, 44:37–48.
- Denning, D. G. 1949b. A new genus and five new species of Trichoptera. *Journal of the Kansas Entomological Society*, 22:88–93.
- Denning, D. G. 1949c. New and little known species of caddis flies. *The American Midland Naturalist*, 42:112–122.
- Denning, D. G. 1949d. Dusting for sheep tick control. *Journal of Economic Entomology*, 42:852.
- Denning, D. G. 1950a. Records and descriptions of nearctic caddis flies. Part I. *Bulletin of the Brooklyn Entomological Society*, 45:97–104.
- Denning, D. G. 1950b. Records and descriptions of nearctic caddis flies. Part II. *Journal of the Kansas Entomological Society*, 23:115–120.
- Denning, D. G. 1950c. Order Trichoptera, the caddis flies. Pp. 19–23 in D. L. Wray, *The insects of North Carolina, second supplement*. North Carolina Department of Agriculture, Division of Entomology, Raleigh, North Carolina.
- Denning, D. G. 1951. Records and descriptions of nearctic caddis flies. Part III. *Journal of the Kansas Entomological Society*, 24:157–162.
- Kimmins, D. E., and D. G. Denning. 1951. The McLachlan types of North American Trichoptera in the British Museum. *Annals of the Entomological Society of America*, 44:111–140.
- Denning, D. G. 1952. Descriptions of several new species of caddis flies. *The Canadian Entomologist*, 84:17–22.
- Denning, D. G. 1953. A new genus of Limnephilidae (Trichoptera). *The Pan-Pacific Entomologist*, 29:165–169.
- Denning, D. G. 1954a. New species of *Lepidostoma* (Trichoptera: Lepidostomatidae). *The Pan-Pacific Entomologist*, 30:187–194.
- Denning, D. G. 1954b. New species of western Trichoptera. *Journal of the Kansas Entomological Society*, 27:57–64.
- Denning, D. G. 1956a. Several new species of western Trichoptera. *The Pan-Pacific Entomologist*, 32:73–80.
- Denning, D. G. 1956b. Trichoptera. Pp. 237–270 in R. L. Usinger (ed.), *Aquatic insects of California*. University of California Press, Berkeley, California.
- Denning, D. G. 1958a. New western Trichoptera. *The Pan-Pacific Entomologist*, 34:93–98.
- Denning, D. G. 1958b. The genus *Farula* (Trichoptera: Limnephilidae). *Annals of the Entomological Society of America*, 51:531–535.
- Denning, D. G. 1962a. New Trichoptera. *The Pan-Pacific Entomologist*, 38:33–39.
- Denning, D. G. 1962b. New Trichoptera from Mexico. *Journal of the Kansas Entomological Society*, 35:402–408.
- Denning, D. G. 1964a. Descriptions of five new Trichoptera. *The Pan-Pacific Entomologist*, 40: 241–245.
- Denning, D. G. 1964b. The genus *Homophylax* (Trichoptera: Limnephilidae). *Annals of the Entomological Society of America*, 57:253–260.
- Denning, D. G. 1964c. Trichoptera of Baja California. *The Pan-Pacific Entomologist*, 40:128–134.
- Denning, D. G. 1965a. New Hydropsychidae (Trichoptera). *Journal of the Kansas Entomological Society*, 38:75–84.
- Denning, D. G. 1965b. New Rhyacophilids and Limnephilids (Trichoptera: Rhyacophilidae and Limnephilidae). *The Canadian Entomologist*, 97:690–700.

- Denning, D. G. 1965c. New Trichoptera from United States and Mexico. *The Pan-Pacific Entomologist*, 41:262-272.
- Denning, D. G. 1966. New and interesting Trichoptera. *The Pan-Pacific Entomologist*, 42:228-238.
- Denning, D. G., and J. Sykora. 1966. New North American Trichoptera. *The Canadian Entomologist*, 98:1219-1226.
- Denning, D. G., and J. Beardsley. 1967. The collection of *Cheumatopsyche analis* in Hawaii (Hydropsychidae: Trichoptera). *Proceedings of the Entomological Society of Washington*, 69: 56-57.
- Denning, D. G. 1968a. New and interesting North American Trichoptera. *The Pan-Pacific Entomologist*, 44:17-26.
- Denning, D. G. 1968b. New species and notes of western Trichoptera. *Journal of the Kansas Entomological Society*, 41:63-69.
- Denning, D. G., and J. Sykora. 1968. Three new species of Trichoptera from Brazil. *Beitrag zur Neotropischen Fauna*, 5:172-177.
- Denning, D. G. 1970. The genus *Psychoglypha* (Trichoptera: Limnephilidae). *The Canadian Entomologist*, 102:15-30.
- Denning, D. G. 1971. A new genus and new species of Trichoptera. *The Pan-Pacific Entomologist*, 47:202-210.
- Denning, D. G., and R. L. Bickle. 1971. A new Trichoptera from the Hawaiian Islands. *The Pan-Pacific Entomologist*, 47:164.
- Denning, D. G., and F. Schmid. 1971. Descriptions of four new *Rhyacophila* (Trichoptera: Rhyacophilidae). *The Canadian Entomologist*, 103:1553-1556.
- Denning, D. G., and R. L. Bickle. 1972. A review of the genus *Ochrotrichia* (Trichoptera: Hydroptilidae). *Annals of the Entomological Society of America*, 65:141-151.
- Denning, D. G. 1973. New species of Trichoptera. *The Pan-Pacific Entomologist*, 49:132-143.
- Denning, D. G. 1975a. New and unusual *Rhyacophila* (Trichoptera: Rhyacophilidae). *The Canadian Entomologist*, 107:953-962.
- Denning, D. G. 1975b. New species of Trichoptera from western North America. *The Pan-Pacific Entomologist*, 51:318-326.
- Bickle, R. L., and D. G. Denning. 1977. New species and a new genus of Hydroptilidae (Trichoptera). *Journal of the Kansas Entomological Society*, 50:287-300.
- Denning, D. G., and V. H. Resh. 1978. Book Review. Larvae of the North American caddisfly genera (Trichoptera). *The Pan-Pacific Entomologist*, 54:56.
- Denning, D. G., and R. L. Bickle. 1979. New species of *Helicopsyche* (Trichoptera, Helicopsychidae). *The Pan-Pacific Entomologist*, 55:27-33.
- Denning, D. G., and V. H. Resh. 1979. Obituary. Herbert H. Ross. 1908-1978. *The Pan-Pacific Entomologist*, 55:74.
- Schmid, F., and D. G. Denning. 1979. Descriptions of new Annulipalpia (Trichoptera) from southeastern Asia. *The Canadian Entomologist*, 111:243-249.
- Anderson, N. H., G. M. Cooper, and D. G. Denning. 1982. Invertebrates of the H. J. Andrews Experimental Forest, western Cascades, Oregon 2. An annotated checklist of caddisflies (Trichoptera). United States Department of Agriculture General Technical Report PNW No. 402.
- Denning, D. G. 1982a. A review of the Goeridae (Trichoptera). *The Canadian Entomologist*, 114: 637-642.
- Denning, D. G. 1982b. New and interesting Trichoptera from the western United States. *The Pan-Pacific Entomologist*, 58:206-215 (published December 1983).
- Denning, D. G., and H. B. Leech. 1982. Obituary. Joseph Schuh (1910-1981). *Bulletin of the Entomological Society of Canada*, 14:51.
- Denning, D. G., V. H. Resh, and C. L. Hogue. 1983. New species of *Phylloicus* and a new neotropical genus of Calamoceratidae (Trichoptera). *Aquatic Insects*, 5:181-191.
- Denning, D. G. 1989. Eight new species of Trichoptera. *The Pan-Pacific Entomologist*, 65:122-131.
- Flint, O. S., and D. G. Denning. 1989. Studies of neotropical caddisflies, XLI: new species and records of *Austrotinodes* (Trichoptera: Psychomyiidae). *The Pan-Pacific Entomologist*, 65: 108-122.

#### LIST OF NAMES PROPOSED BY DONALD G. DENNING

Listed below are the 347 names (8 genera, 339 species) proposed by Donald G. Denning during his lifetime. The citation and type locality follow each name:

This list, which was compiled by E. P. McElravy and V. H. Resh, is complete as of January 1989.

<i>Genera</i>		
<i>Hydroptilidae</i>		
<i>Rioptila</i> Blickle and Denning	Blickle and Denning, 1977	
<i>Desmona</i> Denning		
<i>Moselyana</i> Denning		
<i>Rossiana</i> Denning		
	<i>Limnephilidae</i>	
	Denning, 1954b	
	Denning, 1949b	
	Denning, 1953	
	<i>Goeridae</i>	
<i>Goeracea</i> Denning	Denning, 1968a	
<i>Goereilla</i> Denning	Denning, 1971	
	<i>Odontoceridae</i>	
<i>Parthina</i> Denning	Denning, 1954b	
	<i>Calamoceratidae</i>	
<i>Murielia</i> Hogue and Denning	Denning, Resh, and Hogue, 1983	
<i>Species</i>		
<i>Philopotamidae</i>		
<i>Chimarra adella</i> Denning	Denning, 1952	Arizona
<i>Chimarra alamosa</i> Denning	Denning, 1962b	Mexico
<i>Chimarra barranca</i> Denning	Denning, 1962b	Mexico
<i>Chimarra beameri</i> Denning	Denning, 1950a	Texas
<i>Chimarrha betteni</i> Denning	Denning, 1941b	Mexico
<i>Chimarra butleri</i> Denning	Denning, 1962a	California
<i>Chimarra donamariae</i> Denning and Sykora	Denning and Sykora, 1968	Brazil
<i>Chimarra lara</i> Denning	Denning, 1971	California
<i>Chimarra luquillo</i> Denning	Denning, 1947a	Puerto Rico
<i>Chimarra moselyi</i> Denning	Denning, 1947e	Georgia
<i>Chimarra primula</i> Denning	Denning, 1950a	Arizona
<i>Chimarrha pylaea</i> Denning	Denning, 1941b	Mexico
<i>Chimarrha ridleyi</i> Denning	Denning, 1941b	Mexico
<i>Chimarra rizona</i> Denning	Denning, 1962b	Mexico
<i>Chimarra siva</i> Denning	Denning, 1949c	Montana
<i>Chimarra spicula</i> Denning	Denning, 1962b	Mexico
<i>Chimarra stellula</i> Denning	Denning, 1962b	Mexico
<i>Chimarra xesta</i> Denning	Denning, 1952	Mexico
<i>Dolophilodes andora</i> Denning	Denning, 1989	California
<i>Dolophilodes columbia</i> Denning	Denning, 1989	Washington
<i>Sortosa oregonia</i> Denning	Denning, 1966	Oregon
<i>Wormaldia arcopa</i> Denning	Denning and Sykora, 1966	Panama
<i>Wormaldia hamata</i> Denning	Denning, 1951	California
<i>Wormaldia lacerna</i> Denning	Denning, 1958a	Washington
<i>Wormaldia laona</i> Denning	Denning, 1989	California
<i>Wormaldia pachita</i> Denning	Denning, 1956a	California
<i>Wormaldia thyria</i> Denning	Denning, 1950a	North Carolina
<i>Psychomyiidae</i>		
<i>Austrotinodes amazonensis</i> Flint and Denning	Flint and Denning, 1989	Brazil
<i>Austrotinodes ancylus</i> Flint and Denning	Flint and Denning, 1989	Ecuador
<i>Austrotinodes ariasi</i> Flint and Denning	Flint and Denning, 1989	Brazil

<i>Austrotinodes bracteatus</i> Flint and Denning	Flint and Denning, 1989	Brazil
<i>Austrotinodes canoabo</i> Flint and Denning	Flint and Denning, 1989	Venezuela
<i>Austrotinodes chihuahua</i> Flint and Denning	Flint and Denning, 1989	Mexico
<i>Austrotinodes contubernalis</i> Flint and Denning	Flint and Denning, 1989	Panama
<i>Austrotinodes fortunata</i> Flint and Denning	Flint and Denning, 1989	Panama
<i>Austrotinodes freytagi</i> Flint and Denning	Flint and Denning, 1989	Honduras
<i>Austrotinodes fuscomarginatus</i> Flint and Denning	Flint and Denning, 1989	Venezuela
<i>Austrotinodes neblinensis</i> Flint and Denning	Flint and Denning, 1989	Venezuela
<i>Austrotinodes nielseni</i> Flint and Denning	Flint and Denning, 1989	Argentina
<i>Austrotinodes prolixus</i> Flint and Denning	Flint and Denning, 1989	Brazil
<i>Austrotinodes tuxtlensis</i> Flint and Denning	Flint and Denning, 1989	Mexico
<i>Tinodes belisa</i> Denning	Denning, 1950b	Oregon
<i>Tinodes cascadia</i> Denning	Denning, 1956a	Oregon
<i>Tinodes gabriella</i> Denning	Denning, 1973	California
<i>Tinodes parvula</i> Denning	Denning, 1950b	California
<i>Tinodes powelli</i> Denning	Denning, 1964c	Mexico
<i>Tinodes schusteri</i> Denning	Denning, 1982b	California
<i>Tinodes siskiyou</i> Denning	Denning, 1951	Oregon
<i>Tinodes twila</i> Denning	Denning, 1975b	California
<i>Tinodes usilla</i> Denning	Denning, 1966	California
Polycentropodidae		
<i>Neureclipsis timesis</i> Denning	Denning, 1948c	Massachusetts
<i>Nyctiophylax celta</i> Denning	Denning, 1947e	Georgia
<i>Nyctiophylax zelenus</i> Denning	Denning, 1950a	Texas
<i>Pahamunaya jihmita</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
<i>Polycentropus ariensis</i> Denning and Sykora	Denning and Sykora, 1966	Mexico
<i>Polycentropus bartolus</i> Denning	Denning, 1962b	Mexico
<i>Polycentropus casicus</i> Denning	Denning and Sykora, 1966	Mexico
<i>Polycentropus chellus</i> Denning	Denning, 1964a	North Dakota
<i>Polycentropus doronca</i> Denning and Sykora	Denning and Sykora, 1966	Mexico
<i>Polycentropus encera</i> Denning and Sykora	Denning, 1971	Mexico
<i>Polycentropus gertschi</i> Denning	Denning, 1950a	Arizona
<i>Polycentropus jenula</i> Denning	Denning and Sykora, 1966	Alberta
<i>Polycentropus magnica</i> Denning	Denning, 1964a	California
<i>Polycentropus smithae</i> Denning	Denning, 1949a	New Hampshire
<i>Polycentropus thilus</i> Denning	Denning, 1962b	Mexico
<i>Polycentropus vanachakuni</i> Schmid and Denning	Schmid and Denning, 1979	India
<i>Polycentropus zaneta</i> Denning	Denning, 1947a	Puerto Rico
<i>Pseudoneureclipsis saccheda</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
Dipseudopsidae		
<i>Dipseudopsis akhila</i> , Schmid and Denning	Schmid and Denning, 1979	Thailand
<i>Dipseudopsis knappi</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
<i>Dipseudopsis petersorum</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
<i>Dipseudopsis thailandica</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
<i>Dipseudopsis ulmeri</i> Schmid and Denning	Schmid and Denning, 1979	Thailand
Hydropsychidae		
<i>Cheumatopsyche ela</i> Denning	Denning, 1942	North Carolina
<i>Cheumatopsyche gelita</i> Denning	Denning, 1952	Arizona
<i>Cheumatopsyche geolca</i> Denning	Denning, 1952	Nevada

<i>Cheumatopsyche geora</i> Denning	Denning, 1948d	Georgia
<i>Cheumatopsyche halima</i> Denning	Denning, 1948d	Massachusetts
<i>Cheumatopsyche harwoodi</i> Denning	Denning, 1949a	Tennessee
<i>Cheumatopsyche mickeli</i> Denning	Denning, 1942	California
<i>Cheumatopsyche pinula</i> Denning	Denning, 1952	Arizona
<i>Cheumatopsyche pitella</i> Denning	Denning, 1968a	Mexico
<i>Cheumatopsyche protera</i> Denning	Denning, 1947a	Puerto Rico
<i>Cheumatopsyche virginica</i> Denning	Denning, 1949a	Virginia
<i>Cheumatopsyche wabasha</i> Denning	Denning, 1947e	Minnesota
<i>Diplectrona margarita</i> Denning	Denning, 1965a	California
<i>Homoplectra luchia</i> Denning	Denning, 1966	Oregon
<i>Homoplectra norada</i> Denning	Denning, 1975b	California
<i>Homoplectra schuhi</i> Denning	Denning, 1965a	Oregon
<i>Homoplectra shasta</i> Denning	Denning, 1949c	California
<i>Homoplectra spora</i> Denning	Denning, 1952	California
<i>Hydropsyche abella</i> Denning	Denning, 1952	Oregon
<i>Hydropsyche alvata</i> Denning	Denning, 1949a	Mississippi
<i>Hydropsyche andersoni</i> Denning	Denning, 1982b	Oregon
<i>Hydropsyche bicornuta</i> Denning	Denning, 1965a	Oregon
<i>Hydropsyche bidentata</i> Denning	Denning, 1947e	South Carolina
<i>Hydropsyche cora</i> Denning	Denning, 1973	California
<i>Hydropsyche dorata</i> Denning	Denning, 1982b	Oregon
<i>Hydropsyche impula</i> Denning	Denning, 1948d	Massachusetts
<i>Hydropsyche intricata</i> Denning	Denning, 1965a	California
<i>Hydropsyche jewetti</i> Denning	Denning, 1965a	Montana
<i>Hydropsyche racona</i> Denning	Denning, 1965a	Wyoming
<i>Hydropsyche reiseni</i> Denning	Denning, 1975b	Oklahoma
<i>Hydropsyche riola</i> Denning	Denning, 1942	Minnesota
<i>Hydropsyche toschiae</i> Denning	Denning, 1965a	Mexico
<i>Hydropsyche vanaca</i> Denning	Denning, 1965a	New Mexico
<i>Hydropsyche winema</i> Denning	Denning, 1965a	Oregon
<i>Parapsyche extensa</i> Denning	Denning, 1949a	California
<i>Parapsyche spinata</i> Denning	Denning, 1949c	Oregon
<i>Smicridea sattleri</i> Denning and Sykora	Denning and Sykora, 1968	Brazil

## Rhyacophilidae

<i>Atopsyche cordoba</i> Denning	Denning, 1968a	Mexico
<i>Atopsyche hintoni</i> Denning	Denning, 1964c	Mexico
<i>Atopsyche hispida</i> Denning	Denning, 1965c	Mexico
<i>Atopsyche schmidi</i> Denning	Denning, 1965c	Costa Rica
<i>Atopsyche sperryi</i> Denning	Denning, 1949b	Arizona
<i>Atopsyche trifidus</i> Denning	Denning, 1948b	Puerto Rico
<i>Atopsyche usingeri</i> Denning	Denning and Sykora, 1968	Brazil
<i>Rhyacophila alexanderi</i> Denning	Denning, 1950b	Montana
<i>Rhyacophila amabilis</i> Denning	Denning, 1965b	California
<i>Rhyacophila arcella</i> Denning	Denning, 1975a	California
<i>Rhyacophila ardala</i> Denning	Denning, 1965b	California
<i>Rhyacophila arnaudi</i> Denning	Denning, 1948b	Oregon
<i>Rhyacophila balosa</i> Denning	Denning, 1989	California
<i>Rhyacophila carula</i> Denning	Denning, 1947a	Puerto Rico
<i>Rhyacophila celina</i> Denning	Denning, 1954b	Oregon
<i>Rhyacophila cerita</i> Denning	Denning, 1971	California
<i>Rhyacophila chandleri</i> Denning	Denning, 1956a	California
<i>Rhyacophila chilsia</i> Denning	Denning, 1950b	Alberta
<i>Rhyacophila chordata</i> Denning	Denning, 1989	California
<i>Rhyacophila ebria</i> Denning	Denning, 1949a	Montana
<i>Rhyacophila glaciera</i> Denning	Denning, 1965c	Montana
<i>Rhyacophila haddocki</i> Denning	Denning, 1968b	Oregon

<i>Rhyacophila hardeni</i> Denning	Denning, 1948b	Georgia
<i>Rhyacophila inaequalis</i> Denning and Schmid	Denning and Schmid, 1971	Thailand
<i>Rhyacophila jewetti</i> Denning	Denning, 1954b	Oregon
<i>Rhyacophila karila</i> Denning	Denning, 1948b	California
<i>Rhyacophila leechi</i> Denning	Denning, 1975a	California
<i>Rhyacophila lineata</i> Denning	Denning, 1956a	California
<i>Rhyacophila lurella</i> Denning	Denning, 1975a	California
<i>Rhyacophila mirus</i> Denning	Denning, 1948a	Wyoming
<i>Rhyacophila mosana</i> Denning	Denning, 1965c	California
<i>Rhyacophila neograndis</i> Denning	Denning, 1948b	California
<i>Rhyacophila newelli</i> Denning	Denning, 1971	Montana
<i>Rhyacophila petersoni</i> Schmid and Denning	Denning and Schmid, 1971	Thailand
<i>Rhyacophila pichaca</i> Denning	Denning, 1956a	Oregon
<i>Rhyacophila potteri</i> Denning	Denning and Schmid, 1971	Idaho
<i>Rhyacophila reana</i> Denning	Denning and Schmid, 1971	California
<i>Rhyacophila reyesi</i> Denning	Denning, 1989	California
<i>Rhyacophila sequoia</i> Denning	Denning, 1950b	California
<i>Rhyacophila sierra</i> Denning	Denning, 1968b	California
<i>Rhyacophila siskiyou</i> Denning	Denning, 1975a	California
<i>Rhyacophila sonoma</i> Denning	Denning, 1948b	California
<i>Rhyacophila spinata</i> Denning	Denning, 1965b	California
<i>Rhyacophila tamalpaisi</i> Denning	Denning, 1975b	California
<i>Rhyacophila tehama</i> Denning	Denning, 1975a	California
<i>Rhyacophila unimaculata</i> Denning	Denning, 1941a	British Columbia
<i>Rhyacophila velora</i> Denning	Denning, 1954b	California
<i>Rhyacophila wallowa</i> Denning	Denning, 1956a	Oregon

## Glossosomatidae

<i>Agapetus arcita</i> Denning	Denning, 1951	California
<i>Agapetus bifidus</i> Denning	Denning, 1949c	Oregon
<i>Agapetus cornuta</i> Denning	Denning, 1958a	Washington
<i>Agapetus joannia</i> Denning	Denning, 1965c	California
<i>Agapetus montanus</i> Denning	Denning, 1949a	Montana
<i>Agapetus occidentis</i> Denning	Denning, 1949c	Oregon
<i>Agapetus orosus</i> Denning	Denning, 1950b	California
<i>Agapetus rossi</i> Denning	Denning, 1941a	Minnesota
<i>Anagapetus aisha</i> Denning	Denning, 1964a	California
<i>Anagapetus thirza</i> Denning	Denning, 1965c	California
<i>Culoptila kimminsi</i> Denning	Denning, 1965c	Arizona
<i>Culoptila moseleyi</i> Denning	Denning, 1965c	Arizona
<i>Eomystra unica</i> Denning	Denning, 1942	Minnesota
<i>Glossosoma bruna</i> Denning	Denning, 1954b	California
<i>Glossosoma califica</i> Denning	Denning, 1948b	California
<i>Glossosoma mereca</i> Denning	Denning, 1948b	California
<i>Glossosoma sequoia</i> Denning	Denning, 1973	California
<i>Protoptila georgiana</i> Denning	Denning, 1947e	Georgia
<i>Protoptila talola</i> Denning	Denning, 1947e	Minnesota

## Hydroptilidae

<i>Hydroptila acoma</i> Denning	Denning, 1947c	California
<i>Hydroptila callia</i> Denning	Denning, 1947d	North Carolina
<i>Hydroptila dodgei</i> Denning	Denning, 1947b	Georgia
<i>Hydroptila lenora</i> Blickle and Denning	Blickle and Denning, 1977	Oregon
<i>Hydroptila pullatus</i> Denning	Denning, 1947d	Wyoming
<i>Hydroptila valhalla</i> Denning	Denning, 1947c	Minnesota
<i>Hydroptila wakulla</i> Denning	Denning, 1947b	Florida
<i>Hydroptila wyomia</i> Denning	Denning, 1947d	Wyoming

<i>Mayatrchia moseleyi</i> Bickle and Denning	Bickle and Denning, 1977	Utah
<i>Metrichia volada</i> Bickle and Denning	Bickle and Denning, 1977	Arizona
<i>Neotrichia ersitis</i> Denning	Denning, 1947d	Saskatchewan
<i>Neotrichia halia</i> Denning	Denning, 1947d	Wyoming
<i>Neotrichia panneus</i> Denning	Denning, 1947d	Wyoming
<i>Neotrichia ranea</i> Denning	Denning, 1947b	Florida
<i>Ochrotrichia alexanderi</i> Denning and Bickle	Denning and Bickle, 1972	California
<i>Ochrotrichia alsea</i> Denning and Bickle	Denning and Bickle, 1972	Oregon
<i>Ochrotrichia arizonica</i> Denning and Bickle	Denning and Bickle, 1972	Arizona
<i>Ochrotrichia buccata</i> Denning and Bickle	Denning and Bickle, 1972	California
<i>Ochrotrichia burdicki</i> Denning	Denning, 1989	California
<i>Ochrotrichia chiapa</i> Denning and Bickle	Denning and Bickle, 1972	Mexico
<i>Ochrotrichia hadria</i> Denning and Bickle	Denning and Bickle, 1972	California
<i>Ochrotrichia honeyi</i> Bickle and Denning	Bickle and Denning, 1977	California
<i>Ochrotrichia ildria</i> Denning and Bickle	Denning and Bickle, 1972	Arizona
<i>Ochrotrichia lucia</i> Denning and Bickle	Denning and Bickle, 1972	California
<i>Ochrotrichia nacora</i> Denning and Bickle	Denning and Bickle, 1972	California
<i>Ochrotrichia potomus</i> Denning	Denning, 1947d	Wyoming
<i>Ochrotrichia quadrispina</i> Denning and Bickle	Denning and Bickle, 1972	Arizona
<i>Ochrotrichia rothi</i> Denning and Bickle	Denning and Bickle, 1972	Arizona
<i>Ochrotrichia salaris</i> Bickle and Denning	Bickle and Denning, 1977	California
<i>Ochrotrichia spinulata</i> Denning and Bickle	Denning and Bickle, 1972	Arizona
<i>Ochrotrichia tenuata</i> Bickle and Denning	Bickle and Denning, 1977	Oregon
<i>Ochrotrichia vertreesi</i> Denning and Bickle	Denning and Bickle, 1972	Oregon
<i>Ochrotrichia zioni</i> Denning and Bickle	Denning and Bickle, 1972	Utah
<i>Orthotrichia instabilis</i> Denning	Denning, 1948d	Florida
<i>Oxyethira abacatia</i> Denning	Denning, 1947b	Georgia
<i>Oxyethira cibola</i> Denning	Denning, 1947b	Georgia
<i>Oxyethira florida</i> Denning	Denning, 1947b	Florida
<i>Oxyethira janella</i> Denning	Denning, 1948d	Florida
<i>Oxyethira maya</i> Denning	Denning, 1947b	Georgia
<i>Oxyethira obtatus</i> Denning	Denning, 1947c	Minnesota
<i>Oxyethira setosa</i> Denning	Denning, 1947b	Georgia
<i>Oxyethira walteri</i> Denning	Denning, 1947b	Florida
<i>Rioptila arizonica</i> Bickle and Denning	Bickle and Denning, 1977	Arizona
<i>Stactobiella martynovi</i> Bickle and Denning	Bickle and Denning, 1977	Tennessee
Brachycentridae		
<i>Micrasema alexanderi</i> Denning	Denning, 1948c	Wyoming
<i>Micrasema etra</i> Denning	Denning, 1948c	Wyoming
<i>Micrasema oregoni</i> Denning	Denning, 1982b	Oregon
Lepidostomatidae		
<i>Lepidostoma acarola</i> Denning	Denning, 1962a	Arizona
<i>Lepidostoma alexanderi</i> Denning	Denning, 1962a	Arizona
<i>Lepidostoma aporna</i> Denning	Denning, 1949c	Utah
<i>Lepidostoma astanea</i> Denning	Denning, 1954a	California
<i>Lepidostoma baxea</i> Denning	Denning, 1958a	California
<i>Lepidostoma calensis</i> Denning	Denning, 1968b	California
<i>Lepidostoma crypta</i> Denning	Denning, 1964a	California
<i>Lepidostoma errigena</i> Denning	Denning, 1954a	California
<i>Lepidostoma fischeri</i> Denning	Denning, 1968b	Oregon
<i>Lepidostoma goedeni</i> Denning	Denning, 1971	Oregon
<i>Lepidostoma leechi</i> Denning	Denning, 1962a	Mexico
<i>Lepidostoma licola</i> Denning	Denning, 1975b	California
<i>Lepidostoma mira</i> Denning	Denning, 1954a	California
<i>Lepidostoma moneka</i> Denning	Denning, 1968b	Arizona
<i>Lepidostoma querla</i> Denning	Denning, 1949c	Arizona
<i>Lepidostoma recina</i> Denning	Denning, 1954a	Oregon

<i>Lepidostoma reosa</i> Denning	Denning, 1954a	Massachusetts
<i>Lepidostoma rileyi</i> Denning	Denning, 1947e	North Carolina
<i>Lepidostoma roemhildi</i> Denning	Denning, 1982b	Montana
<i>Lepidostoma spicata</i> Denning	Denning, 1954a	Idaho
<i>Lepidostoma veleda</i> Denning	Denning, 1948a	Wyoming
Limnephilidae		
<i>Allomyia stylata</i> Denning	Denning, 1948c	Wyoming
<i>Anabolia caroli</i> Denning	Denning, 1941a	British Columbia
<i>Anabolia longicercus</i> Denning	Denning, 1941a	Minnesota
<i>Anisogamus banksi</i> Denning	Denning, 1941a	Idaho
<i>Chyranda parvula</i> Denning	Denning, 1948c	Quebec
<i>Cryptochia califca</i> Denning	Denning, 1968a	California
<i>Cryptochia excella</i> Denning	Denning, 1964a	California
<i>Cryptochia furcata</i> Denning	Denning, 1953	Montana
<i>Cryptochia neosa</i> Denning	Denning, 1954b	Oregon
<i>Cryptochia shasta</i> Denning	Denning, 1975b	California
<i>Desmona bethula</i> Denning	Denning, 1954b	California
<i>Ecclisomyia bilera</i> Denning	Denning, 1951	California
<i>Farula davisii</i> Denning	Denning, 1958b	Oregon
<i>Farula geyseri</i> Denning	Denning, 1989	California
<i>Farula honeyi</i> Denning	Denning, 1973	California
<i>Farula jewetti</i> Denning	Denning, 1958b	Oregon
<i>Farula petersoni</i> Denning	Denning, 1973	California
<i>Farula wigginsi</i> Denning	Denning, 1982b	California
<i>Grammotaulius lorettae</i> Denning	Denning, 1941c	Colorado
<i>Homophylax acutus</i> Denning	Denning, 1964b	Idaho
<i>Homophylax adriana</i> Denning	Denning, 1964b	New Mexico
<i>Homophylax insulas</i> Denning	Denning, 1964b	California
<i>Homophylax rentzi</i> Denning	Denning, 1964b	California
<i>Imania chama</i> Denning	Denning, 1953	Wyoming
<i>Limnephilus acrocurvus</i> Denning	Denning, 1942	Minnesota
<i>Limnephilus alberta</i> Denning	Denning, 1958a	Alberta
<i>Limnephilus alvatus</i> Denning	Denning, 1968a	Alberta
<i>Limnephilus atercus</i> Denning	Denning, 1965b	California
<i>Limnephilus batchawana</i> Denning	Denning, 1949b	Ontario
<i>Limnephilus biparta</i> Denning	Denning and Sykora, 1966	Mexico
<i>Limnephilus bucketti</i> Denning	Denning, 1965b	California
<i>Limnephilus catula</i> Denning	Denning, 1965b	California
<i>Limnephilus challisa</i> Denning	Denning, 1958a	Idaho
<i>Limnephilus fautini</i> Denning	Denning, 1949a	Wyoming
<i>Limnephilus gioia</i> Denning	Denning, 1948d	Wyoming
<i>Limnephilus graniculata</i> Denning	Denning and Sykora, 1966	Mexico
<i>Limnephilus kalama</i> Denning	Denning, 1968a	Washington
<i>Limnephilus moselyi</i> Kimmins and Denning	Kimmins and Denning, 1951	Greenland
<i>Limnephilus neoacula</i> Denning	Denning, 1965b	California
<i>Limnephilus paonius</i> Denning	Denning, 1949c	Iceland
<i>Limnephilus peltus</i> Denning	Denning, 1962a	California
<i>Limnephilus rothi</i> Denning	Denning, 1966	Arizona
<i>Limnephilus saltus</i> Denning	Denning, 1949b	Wyoming
<i>Limnephilus selatus</i> Denning	Denning, 1966	Utah
<i>Limnephilus sierrata</i> Denning	Denning, 1968a	California
<i>Limnephilus sylviae</i> Denning	Denning, 1949b	Oregon
<i>Limnephilus tulatus</i> Denning	Denning, 1962a	Arizona
<i>Limnephilus utahensis</i> Denning	Denning, 1948a	Utah
<i>Moselyana comosa</i> Denning	Denning, 1949b	Oregon
<i>Neophylax nacatus</i> Denning	Denning, 1941a	New Hampshire
<i>Neophylax saloris</i> Denning	Denning, 1947e	Georgia

<i>Neophylax splendens</i> Denning	Denning, 1948c	Wyoming
<i>Neothremma galena</i> Denning	Denning, 1949a	Washington
<i>Neothremma genella</i> Denning	Denning, 1966	California
<i>Neothremma siskiyou</i> Denning	Denning, 1975b	California
<i>Psychoglypha browni</i> Denning	Denning, 1970	Oregon
<i>Psychoglypha klamathi</i> Denning	Denning, 1970	California
<i>Psychoglypha leechi</i> Denning	Denning, 1970	California
<i>Psychoglypha mazamae</i> Denning	Denning, 1970	California
<i>Psychoglypha mono</i> Denning	Denning, 1970	California
<i>Psychoglypha schuhi</i> Denning	Denning, 1970	Nevada
<i>Psychoglypha smithi</i> Denning	Denning, 1970	Idaho
<i>Radema chasica</i> Denning	Denning, 1954b	Montana
<i>Radema comosa</i> Denning	Denning, 1949a	Utah
<i>Radema tavaala</i> Denning	Denning, 1953	Oregon
<i>Rossiana montana</i> Denning	Denning, 1953	Montana
Georidae		
<i>Goera schmidi</i> Denning	Denning, 1982a	Thailand
<i>Goeracea oregona</i> Denning	Denning, 1968a	Oregon
<i>Goereilla baumanni</i> Denning	Denning, 1971	Montana
Odontoceridae		
<i>Parthina linea</i> Denning	Denning, 1954b	California
<i>Parthina vierra</i> Denning	Denning, 1973	California
<i>Psilotreta hansonii</i> Denning	Denning, 1948c	Massachusetts
Helicopsychidae		
<i>Helicopsyche lewallei</i> Denning and Bickle	Denning and Bickle, 1979	El Salvador
<i>Helicopsyche pietia</i> Denning	Denning, 1964c	Mexico
<i>Helicopsyche rentzi</i> Denning and Bickle	Denning and Bickle, 1979	Costa Rica
<i>Helicopsyche sinuata</i> Denning and Bickle	Denning and Bickle, 1979	California
<i>Helicopsyche tapadas</i> Denning	Denning, 1966	Mexico
<i>Helicopsyche temora</i> Denning and Bickle	Denning and Bickle, 1979	Mexico
<i>Helicopsyche villegasi</i> Denning and Bickle	Denning and Bickle, 1979	Mexico
Calamoceratidae		
<i>Murielia acutiterga</i> Denning and Hogue	Denning, Resh, and Hogue, 1983	Costa Rica
<i>Murielia fortuna</i> Resh	Denning, Resh, and Hogue, 1983	Panama
<i>Phylloicus elegans</i> Hogue and Denning	Denning, Resh, and Hogue, 1983	Panama
<i>Phylloicus hansonii</i> Denning	Denning, Resh, and Hogue, 1983	Trinidad
<i>Phylloicus priapulus</i> Denning and Hogue	Denning, Resh, and Hogue, 1983	Costa Rica
Leptoceridae		
<i>Athripsodes arielles</i> Denning	Denning, 1942	Minnesota
<i>Athripsodes daggyi</i> Denning	Denning, 1947e	Georgia
<i>Athripsodes pfadtii</i> Denning	Denning, 1948a	Wyoming
<i>Athripsodes vertreesi</i> Denning	Denning, 1966	Oregon
<i>Leptocella aeolius</i> Denning	Denning, 1948a	Wyoming
<i>Oecetis arizonica</i> Denning	Denning, 1951	Arizona
<i>Oecetis elatus</i> Denning and Sykora	Denning and Sykora, 1966	Mexico
<i>Oecetis falicia</i> Denning	Denning and Sykora, 1966	Panama
<i>Oecetis pratelia</i> Denning	Denning, 1948c	Florida
<i>Oecetis pratti</i> Denning	Denning, 1947a	Puerto Rico